

2005 CSP Applicant Documentation of Enhancements

Platte Watershed

Please indicate which of the following practices and activities you are currently applying by indicating how many "units" (most are measured in acres) in the first column (under "Existing Units"). Identify any additional enhancement practices or activities you are willing to add to your Ag operation by indicating how many "units" in the second column (under "Planned Units"), and the year you plan to begin the practice or activity in the third column (under "Planned Year").

Practices or activities highlighted in gray will require an initial assessment by NRCS to determine your existing level . The Soil Tillage Intensity Rating (STIR) and the Soil Conditioning Index (SCI), an index that accounts for organic material returned to the soil, the effect of field operations on organic matter breakdown, and soil erosion processes. The Wildlife Habitat Appraisal Guide (WHAG) is an assessment of the wildlife habitat.

Existing		Planned			Enhancement Practice or Activity
Units	Field Numbers	Units	Year	Field Numbers	
Energy Management Enhancements					
					E1. Energy Audit. This is a one time enhancement. See CSP Job Sheet E-1. (\$500.00 Each)
					E2. Recycling of all used motor oil for tractors and lubricating oil for other farm equipment such as irrigation pumps or grain drying motors. See CSP Job Sheet E-1. (200.00 per year)
					E3. Use of perennial legumes in the crop rotation to reduce energy need for production of nitrogen. See CSP Job Sheet E-5. (\$0.70 per Acre)
					E4. Use of annual legumes in the crop rotation to reduce energy need for production of nitrogen. See CSP Job Sheet E-5. (\$0.10 per Acre)
					E5. Use of manure to supply at least 90% of nutrient needs of plants (\$1.10 per Acre).
					E6. Soil Tillage Intensity Rating (STIR) is less than 60 . See CSP Job Sheet E-4. (\$0.50 per Acre)
					E7. Soil Tillage Intensity Rating (STIR) is less than 30 . See CSP Job Sheet E-4. (\$0.70 per Acre)
					E8. Soil Tillage Intensity Rating (STIR) is less than 15 . See CSP Job Sheet E-4. (\$0.90 per Acre)

					E9. Use of renewable energy fuel (Biodiesel or Ethanol) . Payments are made in \$25 increments for each 100 gallons <u>actual</u> biofuel used per year. See CSP Job Sheet E-2. (\$25.00 per 100 Gallon)
					E10. Renewable energy generation (solar, wind, water, geothermal, methane). See CSP Job Sheet E-3. (\$2.50 per 100 KWh)
					E11. 5% energy reduction . See CSP Job Sheet E-3. (\$100.00 per BTU)
					E12. 10% energy reduction . See CSP Job Sheet E-3. (\$200.00 per BTU)
					E13. 20% energy reduction . See CSP Job Sheet E-3. (\$500.00 per BTU)
Grazing Management Enhancements					
					G1. Maintain grazing records ; utilize monitoring tools; rotate feeding, loafing, and sacrifice areas to improve grassland condition and health and plant diversity. (\$7.50 per Acre)
					G2. Patch burn grazing will be used to create a mosaic of heavily grazed and lightly grazed areas to provide a diverse vegetative structure and increase plant diversity in the same grazing unit. Patch burn grazing is typically done on a three year cycle. One third of the field is burned each year. A minimum of 30 contiguous acres is preferred to provide ample nesting cover for grassland birds. (\$5.00 per Acre)
					G3. Inter-seed native legumes and/or forbs and utilize use exclusion or deferred grazing to improve grassland condition and health and plant diversity. (\$15.00 per Acre)
					G4. On pasture land, utilize legumes in >=50% of the system, with at least 30% legumes in those portions (payment is in acres with legumes) to improve forage quality. (\$5.00 per Acre)
					G5. Diversify forage species, without using tillage to improve pasture. (\$7.50 per Acre)
Habitat Management Enhancements					
					H1. Leave cropland unharvested on at least 1/4 acre (but no more than 4 acres) per 40 acres and maintain undisturbed residues over winter on remaining acres to improve wildlife cover and food. Enhancement payment is based on the acre(s) left unharvested. (\$10.00 per Acre)
					H2. Maintain 3 Downed tree structures per 40 acres in field borders and/or buffers. (\$0.10 per Acre)
					H3. Time haying and livestock grazing to avoid nesting and fawning periods and allow for the establishment, development, and management of upland vegetation and protect water quality. (\$10.00 per Acre)

					H4. Manage pasture to maintain native legumes and/or forbs and/or native grass species to provide food and cover for wildlife. (\$15.00 per Acre)
					H5. Utilize annual seasonal flooding of grain fields to create food and loafing areas. (\$10.00 per Acre)
					H6. Create and maintain vernal pools and adjacent buffer areas on 1/10 acre per 40 acres for improved amphibian and reptile habitat. (\$15.00 per Acre)
					H7. Integrate moist-soil units into farming operation on rotation (50% of acres every other year) for migrant water birds to increase food sources and improve habitat. (\$5.00 per Acre)
					H8. Implement Quail Habitat improvement bundle to significantly improve survival of targeted Quail species on cropland - consisting of all the following: 1. 30 ft. field borders of native grass/forb mix with adjacent covey headquarters or edgefeathering, 2. Complete eradication of fescue and/or brome AND 3. Prescribed burning or light disking of field borders once every 5 years. (\$10.00 per Acre)
					H9. Implement Quail Habitat improvement bundle to significantly improve survival of targeted Quail species on grazing land - consisting of all the following: 1. Livestock exclusion, 2. Create 30 ft. field borders of native grass/forb mix with adjacent covey headquarters or edgefeathering by excluding livestock, 3. Complete eradication of fescue and/or brome AND 4. Prescribed burning or light disking of field borders once every 5 years. (\$10.00 per Acre)
					H10. Improve wildlife habitat to achieve a Wildlife Enhancement Index Level of 0.6 or greater . (\$5.00 per Acre)
					H11. Improve wildlife habitat to achieve a Wildlife Enhancement Index Level of 0.7 or greater . (\$10.00 per Acre)
					H12. Improve wildlife habitat to achieve a Wildlife Enhancement Index Level of 0.8 or greater . (\$15.00 per Acre)
					H13. Improve wildlife habitat to achieve a Wildlife Enhancement Index Level of 0.9 or greater . (\$20.00 per Acre)
					H14. Improve wildlife habitat to achieve a Wildlife Enhancement Index Level of 1.0 . (\$25.00 per Acre)

Nutrient Management Enhancements					
					N1. Reapportion nitrogen inputs by using split applications (including sidedress applications of nitrogen) to more effectively match crop needs to nitrogen availability. (\$10.00 per Acre)
					N2. Use controlled-release nitrogen products (e.g. polymer coating) to more effectively match crop needs to nitrogen availability. (\$7.50 per Acre)
					N3. Use a nitrification inhibitor to reduce loss of anhydrous ammonia nitrogen. (\$8.00 per Acre)
					N4. Significantly reduce nitrogen losses by applying a urease inhibitor . (\$7.50 per Acre)
					N5. Decrease nutrient loss potential by incorporating manure products into soil . (\$7.50 per Acre)
					N6. Optimize nutrient use based on crop needs through manure testing, and bi-annual soil testing and/or plant tissue testing . (\$20.00 per Acre)
					N7. Direct manure management application to soils with low P indexes to reduce environmental risks from excessive P build-up in the soil. (\$2.00 per Acre)
					N8. Use grid soil sampling, yield maps for P and K, and precision application equipment to increase fertilizer efficiency and utilization. (\$7.50 per Acre)
					N9. Utilize legumes in resource conserving crop rotation to improve soil fertility, soil quality, forage quality, air quality, and provide wildlife benefits. (\$7.50 per Acre)
					N10. Utilize fertilizer application methods that will place nutrients as close as possible to the root zone of the plant , such as banding, side-dressing, or injection to reduce environmental risk. (\$4.00 per Acre)
					N11. Minimize ammonia loss to the environment by eliminating fall application of Anhydrous Ammonia . (\$7.00 per Acre)
Pest Management Enhancements					
					P1. Utilize pesticides which have a WINPST Soil/Pesticide Interaction Loss Potential and Hazard Rating of "Low" or "Very Low" to reduce environmental risks . (\$5.00 per Acre)
					P2. Use set-backs or filter strips and/or riparian buffers to improve water quality benefits. (9.00 per Acre)
					P3. Maintain hedgerows/field borders to increase the habitat for beneficial insects. (\$10.00 per Acre)

					P4. Utilize GPS technology for banding or spot treatment of pesticides to reduce environmental risk and pesticide use. (\$10.00 per Acre)
					P5. Improve pesticide utilization by using a third party to field scout for the prevention, avoidance, monitoring, and suppression of pests. Maintain pest populations below economically damaging thresholds, minimize pest resistance, and minimize harmful effects of pest control on human health and environmental resources. (\$7.00 per Acre)
Soil Management Enhancements					
					S1. Improve soil conditioning and quality by implementing conservation measures that result in a Soil Conditioning Index (SCI) score of at least 0.1 . (\$1.16 per Acre per tenth increase, i.e. \$1.16 for a SCI = 0.1, \$2.32 for a SCI = 0.2. etc.)
					S2. Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60 . (\$0.50 per Acre)
					S3. Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30 . (\$1.00 per Acre)
					S4. Reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less . (\$2.00 per Acre)
					S5. Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 31 and 60 . (\$1.00 per Acre)
					S6. Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) between 16 and 30 . (\$2.00 per Acre)
					S7. Using GPS or other similar guided measure technology, reduce soil compaction by controlling areas of traffic that result in a Soil Tillage Intensity Rating (STIR) of 15 or less . (\$4.00 per Acre)

Water Management Enhancements					
					W1. Irrigation Enhancement Index Level 1 - 60 - 64%. (\$2.00 per Acre)
					W2. Irrigation Enhancement Index Level 2 - 65 - 69%. (\$4.00 per Acre)
					W3. Irrigation Enhancement Index Level 3 - 70 - 74%. (\$6.00 per Acre)
					W4. Irrigation Enhancement Index Level 4 - 75 - 79%. (\$8.00 per Acre)
					W5. Irrigation Enhancement Index Level 5 - 80 - 84%. (\$10.00 per Acre)
					W6. Irrigation Enhancement Index Level 6 - 85% or greater. (\$12.00 per Acre)
Applicant Signature					
I agree that the following information will be provided to NRCS upon request:					
* Written documentation of the activity or practice performed.					
*Copies of dated receipts for equipment or services purchased.					
I understand that CSP Enhancements earnings are subject to payment caps and that my actual payments will depend on my CSP Tier level and the number of acres enrolled.					
I understand that it is my responsibility to obtain all necessary permits and to comply with all ordinances and laws pertaining to the application of these activities.					
Applicant(s)			Date		
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